- L-4 LIBERIA: HARBEL Hill in Firestone Plantation with virgin rain forest. Large tunnels, gray silk, with scattered fraces on medium sized there in full shooks. Several large suggests collected at least one anti-penult ot. May be Parachirembia liberica. Boy Scout Comp.
- L-5 Same place but another hill. Two genera cultured (1) a teratembired (collected a male) in inconspicuous galleries in fine mova
 galleries partially in back surface. Many stages including at loot
 one penult of a very small sp. (2) a larger species genera?
 mysophy chestnut brown, segments conspicuous very active, about
 6 cultured. In individual galleries usually following vertical grooves
 4 back. Junual Burfaces diety TII-8-66 me botts house.
- L-6 LIBERIA: 10 MI. N. GBANKA VIII-11-66 Back Crevies of large tree runnant of former dense rai frust is willing hills. Turnels exposed visible from road colony 2' × 3'. Parachirembia some mut of 9, penult and many 3rd instar.
- L-7 LIBERIA: 8 MI. N.W. BELFFANAI VIII-11-66 Camps along river
 Riverine forest. Large embireds in diet galleries on large tree trushs
 = 570P4 and vines in deep shade. Possilly 2 sppp. Parachivembia
 one entirely dark. Most \(\frac{1}{2} \frac{1}{2} \) grown
 - L-8 LIBERIA: 2 MI. E. KOLAHUN VIII-13-66 Where I photographed rice threshing fara chirembia on searred tree trunk in postel of old forest between agric fields, No othe colonies seen.
- L-9 LIBERIA: CREST OF MT. NIMBA 1400 M VIII-15.66 Cloudy wet zone

 Small openies common in tunnels ramifying in most on limbs of

 filled, rough-barked true. At times 2 embids pan short galley. At

 times sible visible on bark beyond edge of mosts. Seems to be tendenhied

 with wing pools of well be apterned

 or about some size but none with wing pools of well be apterned

 or about. I juv. (?) & of a large species parhaps shagastochimies

 mindless black throughout under book plake of standing true.
 - L-10 Some place on L-9 Rayer embired, Parachirentica?, collected in great numbers on little patch galleries on sundersunfaces of trusho and limbs of recently filled large trees. Silk in conspicuous, dusted with book or first particles. Usually rontain only one individual Most in one stage about half grown. Wing pado not conspicuous, if indeed present
 - L-H IVORY COAST: TOULÉPLEU 250 M VIII-18-66 Cultured 2 embis do one 1C-1 & juv. Para chirembia + one small juv at base of large rain forest tree in coffee plantation.

- On back of trees rock surfaces in gallery rain forest in rocky canyon Silk clean blue-white, forming continuous patches with ladiating galleries beneath. Common in exposed places along was. Must be Modosembia Most in early motors.
- Some place as 1C-2 but is dark frest. Disty sheet galleries on surface of smooth barked tree with large smooth flakes. Satended over a 3ft high area, 8 ft sapore ground, able to scrape off only lower section and get 3-4 about 9 of a smaller Parachiembia? Hope that they have moted.
- VIII-19-66 400 M Salley rain forest in river valley, subject to longer dry periods than coastal forest. Surrounding hills covered with high grass and low trees. Appears to be some sp. as 1C-2 on bank of large trees.
- Savenna woodland very similar to Katanga. Small embirds

 possibly 2 sppp, in and under back creviers of dead twigs

 and limbs of live trees. Some of there are young of a large spo.

 1C-6 IVORY COAST: Same place disintegrated water.

 Short gallerie occupation by (small brown a line)
 - Short gallerie occuppied by I small brown embid on old weathered termite mounds about 3-4 ft high
 - 10-7 IVORY COAST: 10 mi S.E. TOUBA, 420 M VIII-20-66 (Stop 20)

 Modosembia? very common on back surfaces in high rain forest,
 especially at searc. Also occure in adjacent sav. woodlands in
 many situations including back, small supplings, edges of laterite rocks.
 - 1C-8 IVORY COAST: 5 MI. S. SE. TOUBA, 800 M, VIII-20-66 (Stops 21)

 I large of and young from under rock on exposed ridge

 galley extended up side of rock
 - 1C-9 IVORY COAST: 14 MI. S. BAKO 450 M VIII-21-66

 2-3 abelt B+W & = "long with lat instea from under surfaces
 of freshly fallen branches on ground, elevated somewhat also in
 Crevius on surface of large territe mounds. Webs dirty, in conspicuous
 - Several lot + 2nd instan under back flakes of falled tree with love bank. Old weathered, large web many. Swamma woodland in full leaf.
 - M-1 MALI: 13 MI. N. MANANKORO, 375 M VIII-22-66 Camp, Stage 24

 Open savanna wordland on low rise many large mendows
 on hard pan. Early instar cultures of proto some up as 1C-10

 under similar conditions 2nd instar run very fast. Each

 embired in a separate short turnel.

MALI: 25 MI. S. GAROLO, 350 M. VIII-23-66

Open sourme words with hard lateite ledges. Embired in small patches of silks with a retreat into rock hole. Eggs laid on wall of hole, very ting. Most nest had first inster clustered in Facell. Recent rain. M-2 MAL1: 5 MI. S. MARAKO 350M VIII-23-66 with the second Same sp. from identical environment and miche. preserved 29 MALI: BAMAKO, 405 M VIII-23-66 Small brown sp in matted leaves under stones in semi-shade. Dense semb vigitation in full leaf. arboretum preserve in Cyn above town. It is few jur. Berlande, his M-5 MALL: SAME PLACE AS M-9 WII-29-66 acr, then in ches crevius of shooted Cedges, maked turnels rapide continue special with of and Brus Sound in last inder in wat. had stone of the ting, what each is work of present galley. M-6 Some polace 1111-24-66 Coty Central. 2 & in dead twig & buth buth of low trees, front with risible autoidel Curice, Etmos de le vome au Mi-1. MALI: 40 MI. S.W. SAN, VIII-27-66, 300 M Campo stopo young embirds in tunnels radiating under thin back of 4" sappling, fresh cut, used as a pole in ground. about 25 2-3rd instan collected. Had to winch out of this carrys. Berlandembia M-8 MALI: 10 MI. S.W. SAN, VIII-27-66 300 M young embirido numerous under back flakes of shrub-like tree M-9 MALI: 21 MI. E. OF MOPTI, 350 M, VIII-27-66 (on rd to Bondiagona) Comp stop in reddish ledges of Bankingara escarpement, scattered trees. This colony of brown & and young under back plakes near blage on small tree trunks. City Cambring MALI: some place Small & and young in matted leaves under stone. May be Embia Same place B+ w & and young under bank flakes of large trees Some colonies had large galleries but no adult & May be Berlandenshia feter found a few young next to adver of Berlandenshia & thus 2 app MALI: BANDIAGARA VIII-28-66 Four young embids on one true, one per web under bank plakes. On nearly tree old broad tunnels seen!

Mumerous small, banded, met 4 cream, early is star scattered in dry back of isolated trees on flat is front of village (many photos on roll 15.

- HV-1 HAUT VOLTA: 5 MI. N.W. OVAHIGOUYA, 250 M VIII-29-66

 Rumerous banded small young in tree bank flaken both on trunk
 and poled up little at the base. The very large. In bean field
 in sandy savanna zone. 2 pole males collected in litter
 Bordandendenden
- HV-2 HAUT VOLTA: 35 KM. S. OUAGADOUGOU, 200 M VIII-31-66

 Roadside stops. B+W females and young under back plakes of large trees along road in savanna woodland. One or two places than species under rockes and matter leaves on wet ground along road. This culture is mixed. Ceanther the
- HV-3 Same place bent only B+W. books species. Insidentally, O saunderion was found on trees in Ouagodongon.
- HV-4 HAUT VOLTA: 8 MI. N. PO 300 M, VIII-31-66

 Rendered stope in high dense savanna, high wet grasse condividual nests under seft back flakes. Rendered in shade,
- G-1 GHANA: 22 MI. S. TAMALE, 150 M 1X-1-66

 Rondaide stope in poor savanna, burned last season. A few young of 2 apap in back creviers. Some bonded sips and one even ton in flat galleries like Modosambia.
- G-2 GHANA: 5 MI. S. GALUMPE, 100 M IX-2-66
 Stops in high savanna. Same small banded young in bank
- G-3 GHANA: KINTAMPO 200 M, TX-2-66

 about 6 of the above species in similar mike + environment.

 G-4 GHANA: ACOMADAN 3501.

 G-7 GHANA: ACOMADAN 3501.
- G-4 GHANA: ACOMADAN, 350M, TK-2-66

 Nigh rain forest with understory cleared for caroa collected tiny pale embired perhaps teratembried under edges of thin bank flakes on butterseed large tree trunks also large number of B+W bonder tamistambria Pleasurbied
- G-5 Same place but only Jaconio tembra on dead stumps of and rotting. Inge anotherwise
- G. 6 GHANA: 16 MI. N. KUMASI 250 M IX-2-66 Camp up old log road Same environment as above. B+ W larger sp under bank flakes appears to be some as Barnakor wake leggy sp. etc.

- G-7 Same place Parachirentia brunnea culture from vine-braided tree trusk
- GHANA: 2 MI. S. KANONGA, 230 M, 1x-3-66 a high rain forest with substony cleared for caron etc. Bow young collected under stiff bank flakes near base of buttressed trunk. Not much silk visible until flake is removed.

 Collected 2 adult or Plesembia. Each alone in its short gallery.
- G-9 GHANA: MPRAESO, 500 M, 1x-3-66 Former sain fourt. Collected Parachinembia in large galleries on large planted trees bordering rest home entrance road. Adult Is eggs, 1-2 nd instar.
- G-10 Same place and trees Smaller sp. about 15 mm long some penult or on trunks and old stump large members in single colony
- G-11 Same place Culture contains 3 app. Plesembia, G-10 sp. and a small, shing brown + black sp. with penult of
- G-12 GHANA: DAWA, 1x-7-66 Gracy plain dotted with semb clumps in depressions Not far above sea level. Dry conditions. Embid webs Common on certain low trunks, cultured, seems to be soundarin. Other wiles under small stones, not cultured, may be something else
- NIGERIA: 5 MI. W. ALAGBA (W. OF OTTA), IX-8-66 Near sea level Small sp. on rain forest trunker, galleries following small vine, chipse and at times ramifying do in Modocembia. Some setting and in posted in patch of cut up rain forest in
- Same place Parachinembia of and some 3nd instan young an large true.
 One rolohy too high to really collect. Got of and possibly
- GERIA: 30 MI. 5. IBADAN, 50 M, IX-9-66

 Rain forest with heavy understry of Cacoo, 2 al growth ste.

 Jew large trees along creek.

 Culture contains I red + black of and its brood which orangenic
 of large tree in shade. All young about 2-3 instan NIGERIA: 30 MI. 5.

PLESIEMBIA N.SP. Red & sp.

- N-4 Same place as N-3 at stop 47

 Jing species on back of many hard of trees. Some penult.

 one adult of seen but lost DIRACIUS NSF by NEWS
- N-5 NIGERIA: 10 MI. N. IBADAN, 250 M 1X-9-66 at Stop 48

 3 sp including samplesing in hand course bank of large roadende Acasia in transition forest savonna zone. One is permett of of black sp with white cerei
- N-6 NIGERIA: 22 mi S. OGBOMOSHO, 350 M, 1X-9-66, at stop 49

 Orange and black young of various sign up to 38" mind with

 saundersie on turks of palms in open field in high-grass
 savanna zone. The former distinguished by their more grayish

 silk devoid of from specks.
- N-7 NIGERIA: OGBOMOSHO, 375 M, 1X-9-66 at stops 50

 Both of Shade trees in yard of rest house at S. end of town

 partherophis Saundersin common. Culture contains B+W for + eggp, a plain ten

 Jacristantia 2" long (Lyptembia?), ting species
 - N-8 NIGERIA: ILORIN, 300 M, IX-10-66 at stop 51

 Tunker of coarse-barked sevenne acacies (?) in area thinned by native agric. Soundersii common. Modorambia and one The sp. Collected. Ept Berland
 - N-9 NIGERIA: OKE-OYI (20 MI. N.E. ILORIN), 300 M, IX-10-66 at stopo 52

 Shode their scattered on school grounda Motoumbia present

 (webs pure-white, frass-free), a large banded species, saundersin

 most common also a red and brown sp.
 - N-10 NIGERIA: 8 MI. S. JEBBA, 300 M, IX-10-66 at stope 53 show Small trees along road in sevenna zone, in back viewices soft back. Red & brown species common, in various stages
 - N-11 NIGERIA: 19 MI. N. BOKANI, 250 M 1x-10-66 at stop 54

 Denou, bush, vigin savanna woodland. Parze brown &

 and bond in back sear. Webs gray, thin, frace-free.
 - N-12 NIGERIA: Same as N-12-11

 Modocembia (etc.?) in back crevices. Sambusic about here.

 Scalandia, Backandendia

- N-13 NIGERIA: 9 MI. E. KONTAGORA, 300 M, 1X-11-66 = 500 55

 Red + ten species and others? in would bank cruving flakes, especially in twigs and small branches. Severne woods his full beaf dark Lystembia of with orange head
- N-14 NIGERIA: 4 MI. N. KAGARA (E. OF KONTAGORA), 360 M, 1X-11-66

 Bark of applintered branches + stumps of accious along read

 Red and ten op. + blackish-brown bonded sp. from 2nd to 3rd

 instar. Granitic hills with dense jungle among boulders at

 base.
- N-15 NIGERIA. Same place but in the base jungle in shade white teratembried under back flakes of various trees. Wallering at times radiate on back wood surfaces. These have a glossy sheen.
- N-16 \ NIGERIA: KADUNA M, IX-12-66

 N-17 \Seelembia common on shade trees trunks in town

 Parent webs large, pure white devoid of frass 1-3 rd

 instan webs radiating ant in a pattern. Hundreds of

 above purt to SF. young per nest.
 - N-18 NIGERIA: 45 MI. S.W. KANO 680 M . STOP 58 IX-13-66

 large species under stones on rocky ridge rising from agric polain. Will had scrubby sevanna mendy in original condition. Porks orcasionally had rlean silk galleries addressing to side or underside, esp. in dry portato webs continued in curled brown leaves and to holes in ground them not used durance of excessive soil mosture. One embid per lock.
 - N-19 NIGERIA: 28 MI. N.E. ZARIA, 720 M, IX-14-66 = STOP 60 2-3 spp. of embrids under back flakes and small stones near rocky laterite ledge in cutt-over savanna Scalingham
 - N-20 NIGERIA: 36 MI. S.E. SOBA, 790 M, IX-14-66 = STOP 62 19 sulendia and a four 3rd instar in clean silk gallesies on face of shooled granite ledge.
 - N-21 NIGERIA: 10 MI. N.W. UOS, 1225 M, IX-14-66

 2-3 species incl. I black & (n. sp.), and red + black under small laterite stone in demoded rolling hills.

 R+B Plesiendia

 Barlandendia

- N-22 NIGERIA: JOS, 1250 M, IX-15-66

 Selembia very common on shade the bank in town, also
 on surface of granite boulders. Adult female with

 1st 3rd instar young. Many of these per colony.
- N-23 NIGERIA: 6 MI. S. JOS, 1250M, 1X-16-66

 2-3 spop under granitic stones and flakes, esp. rock on rock embrido singly in small galleries at stone edge. One sp. is large and gold-and-brown similar to N-18
- N-24 Same place EMBIA N.SP. same as N-25 On rock surfaces and beneath same bid notes as N-25 XII-27-67
- N- 25 Some place maide

 In crevious of hollowed out termite mound. Surfaces coated with lichen crust. Junnels in burrows and galleries radiate or surface. XII- 27-67 Culture killed numerous about 4 some of few nymphs except 1st inster and eggs. Eggs laid in losse clusters in web wall mixed with frame.
- N-26 Range black species NIGERIA: 15 MI. S.W. BUKURU, 925 M, IX-16-66
 Mostly under mose costing or palm trunk vising from shade in ordinary review of dead trunks with branches of seculty true. Young in about 2 nd instar.
- N-27 Some place. Small spap, some teratembilds in ting gallaries on trumbes one red & brown nymph and probably Nodosembia.
- N-28 Same place Schembia (?) on and under bank plakes
- N-29 NIGERIA: 8 MI. S.W. BUKURU, 1150 M, 1X-17-66

 Farge galleries leading under coarse lichen-crusted books

 flaken of gigantic nature tree layest seem on poloticus

 and remnant of ancient forest. Balleries at boot 10 ft upe

 and visible on higher branches. Abult 40 with land young

 to large numbers ramifying on underside of plakes. Seems to

 N-26

 PLEST MRIA
 - N-30 NIGERIA: 7 MI. E. BAUCHI, 570 M, IX- 17-66
 Low, dense sevenna on laterite flat. 2 sp is culture one in patches of silk in back flaked in shaded trunks in the clumps, another (red + brown) under back of small stemp This sp. most numerous in culture

 Berlandender

- N-31 NIGERIA: 3 MI. S.W. LANZAI, BAUCHI PROV., 430 M, IX-18-66

 Low, dense, brush like sevenna 2-3 sppp in dead back of branche. Most minerous a pale species (Belandentia) which has 4 nexts and 2nd instar in hollow truig ende Silk white, naked.

 Leptembia 1 Berlandentia
- N-32 NIGERIA: 22 MI. E. DAMATURA 400 M 1x-19-66 Runh styp took paintines of herds + boys wearing hats
 2-3 spaps in bank creviews of trees in thinket of larger trees in flat savanna smuch cut over for agric.
- N-33 NIGERIA: MAIDUGURI, 365 M. agric center on chad Road hage galleries at bree of rough-briked acroin, very large dense crown. appears to be Entire to and 2-3rd instan yours. Some galleries in matter leaves and piles of present shells.
- N-34 NIGERIA: same place

 2 sppp? in dead back of fine posts and in matted leave at base of large trees bordering road. Most have white tipped antennae.

 1 large pale Leptermeia of
- N-35 Some plan. Some maturing of of white typped up.

 N-36 large culture of above species most under loose back of fence posts. Webs radiation, extensively. Young, about half grown tend to crowd in one sextion of system.
- N-37 NIGERIA: FOOTHILLS BEHIND GWOZA, 400 M, 1X-27-66
 galleries radiating from newice on four of shaded granite
 ledge adult & and young. Webs nature. Steep dope of
 granite boulders with sorn fields of pagans between.
- N-38 NIGERIA: GUDEF, IN HILLS BEHIND GWOZA, 800M, IX-27-66
 Similar nishe above in cooler zone with large tree, Palmo etc.

 Campaed at SUM mission hospital
- N-39 NIGERIA: 7 MI. N. YUBA, 500 M, (STOP 76) 1x-28-66

 Flat, dense savanna west of Mandara Mts comewhat thinned for grazing. 1-2 app is back revises of limba of small trees.